

Short Form Classification Report No. 21070R

PRODUCT

Force Dalle Inverted Roof System

SPONSOR

Axter Limited

PRODUCT DETAILS

Paving Slabs (non-combustible (A1)) toplayer	Polypropylene or metal pedestals	Axter Water flow reducing layer (WFRL)	Hytherm ECO XPS, Hytherm ULTRA XPS or Hytherm XPS	Force Dalle
Any dimensions allowed	8 mm up to any thickness	A spun bonded polyethylene geotextile water flow reducing layer with 300 mm overlaps, sealed with Hytherm tape (sealing of laps is optional).	Extruded polystyrene (XPS) insulation board (single or multi layer)	SBS Elastomeric bitumen with a polyester reinforcement of 4 layers.
38 mm up to any thickness	Loose laid/positioned in situ		50 mm up to any thickness	± 4,0 mm
Surface weight known by the laboratory			30 -40 kg/m³	5250 g/m²
Axter Limited fixed height or adjustable paving supports			Loose laid	Torched + hot air

FIELD OF APPLICATION

- Range of pitches: ≤ 10°
- Range of substrates: Oriented Strand Board Type 3 (OSB3) (not FR Grade) (18 mm or more ; 600 kg/m³)
- See annex A for the full extended field of application

CLASSIFICATION

Broof (T4)

STANDARDS

Test standard: CEN/TS 1187:2012

Classification standard: EN 13501-5:2016

SIGNED

APPROVED

For and on behalf of WFRGENT nv

This short form classification report has been drafted according to EGOLF agreement EGA 08rev2:2013 "Application note: clause 5.10 [5.10/1] – Types of test reports used in fire testing". Whilst the test data and classification provided within this short form report was obtained in a test conducted fully in accordance with the standards CEN/TS 1187:2012, EN13501-5:2016, the presentation of the results in this short form report may not satisfy the requirements of those standards and EN ISO/IEC 17025:2005/AC:2006. The presentation of the results in this manner is made by agreement with the sponsor and use of the information herein for product assessment, approval or certification purposes will be restricted.

The full classification report No. **21070D** is available at Axter Limited.

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Annex A: Extended field of application

➤ Range of layer 0: Paving Slabs (non-combustible (A1)) toplayer

Dimensions:	Any dimension allowed
Thickness:	38 mm up to any thickness
Surface weight:	Known by the laboratory
Fixing method:	Axter Limited fixed height or adjustable paving supports

➤ Range of layer 1: Pedestals

Material:	- Copolymer polypropylene based adjustable paving supports with combinable and stackable copolymer polypropylene components. - Metal pedestals
Total height of the pedestal:	8 mm up to any thickness
Flame retardants:	
<i>PP-pedestal</i>	Yes
<i>Metal pedestal</i>	No
Fixing method:	Loose laid/positioned in situ and ballasted by selected slab/tile/decking roof finish. There is a 5 mm drainage space between each tile/slab.

➤ Range of layer 2: Axter Water flow reducing layer (WFRL)

Type of product:	A spun bonded polyethylene geotextile water flow reducing layer with 300 mm overlaps, sealed with Hytherm tape (sealing of laps is optional).
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➤ Range of layer 3: XPS insulation: Hytherm ECO XPS, Hytherm ULTRA XPS or Hytherm XPS

Thickness (single or multi layer):	50 mm up to any thickness
Density of the foam:	30 - 40 kg/m ³
Reaction to fire classification:	E or better
Fixing method:	Loose laid

➤ Range of layer 4: waterproofing system: Force Dalle

Type of product:	SBS Elastomeric bitumen with a polyester reinforcement. The primer (VERNIS SEAL), can be changed with VERNIS SA or VERNIS ANTAC.
Total thickness:	± 4,0 mm
Total surface weight:	5250 g/m ²
Reinforcement:	Polyester 180 g/m ² or less
Mineral finish	N/A
Fixing method:	Torched + hot-air

➤ Range of layer 5 (supporting deck): Oriented Strand Board Type 3 (OSB3) (not FR Grade)

Thickness:	18 mm or more
Density:	600 kg/m ³